

# Power Supply

Model VPS-400US/48

Listings/Approvals:  
UL, FM



## FEATURES

- Input 48 VDC + or -
- 2.5 amp continuous supply current at 24 VDC
- "Power - OK" Led
- Overvoltage protection
- Rectangular current limiting
- Built-in Emi filter
- Meets conducted noise standard of Mil - Std 461B
- Input and output connections are via screw terminal barrier strip

The VESDA LaserPLUS power supply, model VPS-400US/48, is configured for telecommunication applications and requires a 48 VDC uninterruptable power source that serves as both the primary and back-up power source for the VESDA LaserPLUS system.

The VESDA LaserPLUS power supply, model VPS-400US/48, is a multiple zone switching power supply. The VPS-400US/48 is capable of providing power to one, two, three or four VESDA LaserPLUS detectors fitted with a display. Alternatively, the VESDA LaserPLUS power supply, model VPS-400US/48, is capable of providing power for one to 20 VESDA LaserPLUS remote displays fitted with relays.

## Installation of the VESDA Power Supply, Model VPS-400US/48

The VESDA LaserPLUS power supply, model VPS-400US/48, converts 48 VDC to 24 VDC power via a low dissipative stabilizer that uses pulse width modulation to control the output voltage.

The VPS-400US/48 should be installed in ac-

cordance with the National Electrical Code, NFPA 72, and in accordance with any local regulations. See wiring diagrams for proper hookup.

## Components

The VESDA LaserPLUS power supply, model VPS-400US/48, consists of four major components: the mounting enclosure, the switching power supply, the 3A slow - acting type output fuse and two screw terminal barrier strips (input and output).



# POWER SUPPLY Specifications

## Input:

Nominal Input Voltage: 48VDC  
 Input Voltage Range: 40 to 56 VDC  
 Input Fuse Rating: Internal,  
 Slow-acting, 4.0A - 250 volts  
 Input Current: 1.6A DC typical,  
 1.7A DC maximum

## Output:

Nominal Output Voltage: 24VDC  
 Adjustable Output Voltage Range:  
 16.8 - 26.4 VDC  
 Output Current: 2.5A DC @ 86°F (30°C)  
 Switching component ripple, P-P:  
 50 mV typical, 100 mV maximum

## Dimensions:

13.8 in. x 8.9 in. x 4.9 in.  
 (350 mm x 225 mm x 125 mm)

## Weight:

8 lbs. (3.6 kg.)

## Operating Temperature:

Ambient: 32° to 160°F (0° to 71°C)

## Humidity:

10 - 95%RH, non-condensing

## EMI:

Mil-Std-461, Method CEO3  
 Mil-Std-461, Method REO3

## Cable Access:

One inch (25 millimeters)  
 knockouts in various positions

## Cable Termination:

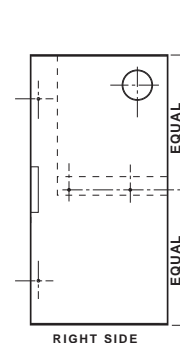
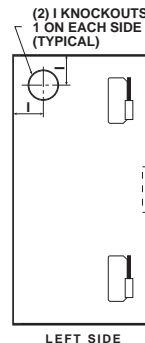
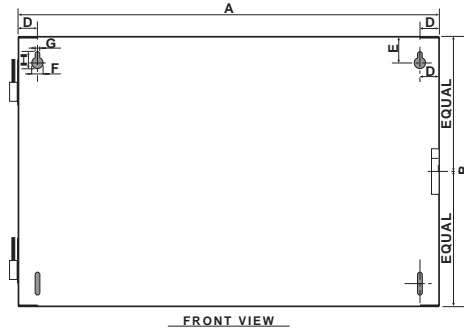
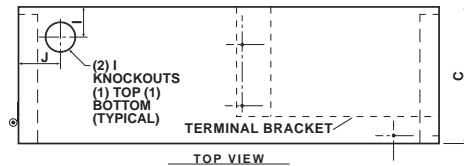
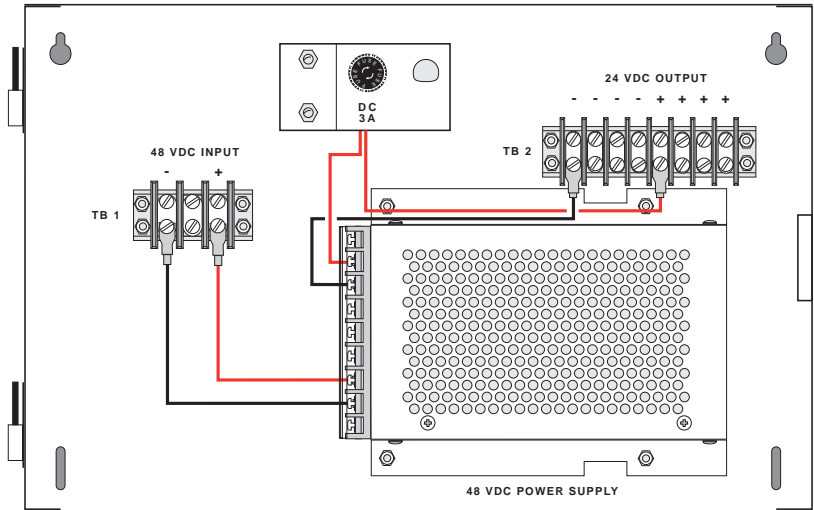
Screw terminal blocks,  
 30-12 AWG (0.2-2.5 mm)

## Ordering Information:

VPS-400US/48

## Additional Datasheets:

Technical Overview  
 Scanner Detector  
 Display Module  
 VESDA System Management (VSM™)  
 Programmer Module  
 Detector



Dimensions	
	in
A	13.750
B	8.875
C	4.500
D	.625
E	.875
F	.375
G	.1875
H	.687
I	1.000
J	1.375

North America

Vision Systems – VESDA  
 35 Pond Park Road  
 Hingham, Massachusetts, USA 02043  
 Ph: (781) 740-2223 or  
 (800) 229-4434  
 Fax: (781) 740-4433

[www.vesda.com](http://www.vesda.com)

